HP ProLiant SL170z G6 Server
Installation Sheet

Part Number 539705-005

⚠ Important Safety Information

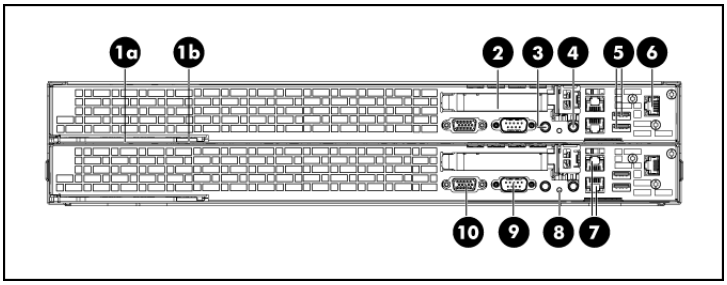
Before installation, read Important Safety Information on HP website **http://www.hp.com/support/importantsafetyinformation**

قبل التثبيت، اقرأ معلومات هامة حول السلامة في موقع HP على ويب.
Před zahájením instalace si přečtěte *důležité bezpečnostní informace* uvedené na webovém serveru společnosti HP.
进行安装前，请先参阅 HP 网站上的*“重要安全信息”*。
在安裝前，請參閱 HP 網站上的*「重要安全資訊」*。
Før installation, læs *Vigtige sikkerhedsoplysninger* på HPs websted.
Lesen Sie vor dem Installieren das Dokument *Wichtige Sicherheitshinweise* auf der HP Website.
Enne paigaldamist tutvuge *olulise ohutusteabega* HP veebisaidil.
Antes de la instalación, lea la sección *Información de seguridad importante* en la página web de HP.
Antes de proceder a la instalación, lea la información importante sobre seguridad en el sitio Web de HP.
Avant installation, lisez attentivement le document *Informations importantes relatives à la sécurité* sur le site Web HP.
Πριν από την εγκατάσταση, διαβάστε τις *Σημαντικές πληροφορίες σχετικά με την ασφάλεια* στην τοποθεσία της HP στο web.
לפני ההתקנה, קרא את *Important Safety Information* באתר האינטרנט של HP.
Prije instaliranja pročitajte *važne informacije o sigurnosti* na HP-ovim web-stranicama.
Prima dell'installazione, consultare la sezione *Informazioni sulla sicurezza e sulle norme vigenti* del sito Web di HP.
インストール前にHPのWebサイトで『安全に使用していただくために』をお読みください。
설치를 시작하기 전에 HP 웹 사이트에서 *주요 안전 수칙을* 참조하십시오.
Pirms instalēšanas izlasiet sadaļu *Svarīga drošības informācija* HP mājas lapā.
Prieš įdiegdami perskaitykite *Svarbią saugos informaciją*, pateiktą HP tinklalapyje.
A telepítés elott tekintse át a HP webhelyén található *fontos biztonsági tudnivalókat.*
Lees *Belangrijke veiligheidsinformatie* op de HP website, voordat u aan de installatie begint.
Les *Viktig informasjon om sikkerhet* på HPs nettsted før du installerer.
Przed instalacją przeczytaj Ważne *informacje dotyczące bezpieczeństwa* w witrynie sieci Web firmy HP.
Antes de instalar, leia o documento *Informações importantes de segurança* no sitio web da HP.
Antes de instalar, leia o documento *Informações importantes sobre segurança* no site da HP.
Перед установкой ознакомьтесь с документом *«Указания по технике безопасности»* на веб-узле HP.
Pred inštaláciou si prečítajte článok *Dôležité bezpečnostné informácie* na webovej lokalite spoločnosti HP.
Pred namestitvijo preberite razdelek *Pomembne varnostne informacije* na HP-jevem spletnem mestu.
Lue ennen asennusta *Tärkeitä turvallisuusohjeita* HP:n verkkosivuilta.
Innan du installerar ska du läsa *Viktig säkerhetsinformation* på HP:s webbplats.
Yüklemeden önce HP web sitesindeki *Önemli Güvenlik Bilgileri* bölümünü okuyun.
Перед встановленням прочитайте *“Важливу інформацію з безпеки”* на веб-сайті HP.

Identifying Chassis Components

Front Panel Components

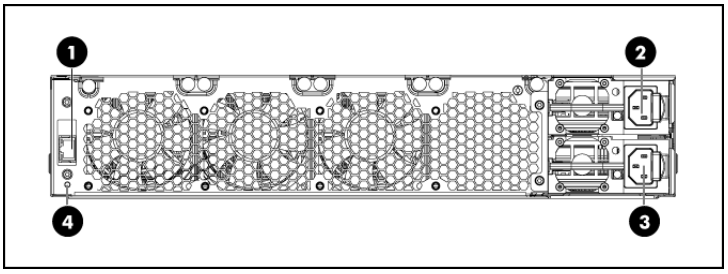
Figure 1 Front panel components of the z6000 chassis with two SL170z servers



Item	Description
1	Tray handle
2	PCI slot
3	UID LED/SW
4	Power LED/SW
5	USB 2.0 ports
6	IPMI port
7	NIC connectors
8	Health LED
9	Serial port
10	Video port

Rear Panel Components

Figure 2 Rear panel components of the z6000 chassis with two SL170z servers



Item	Description
1	RJ45 port
2	Power supply 2
3	Power supply 1
4	UID LED

Server Configuration Resources

In addition to this Installation Sheet, other resources are available for more information regarding the configuration and maintenance of your server:

- For safety information and detailed procedures relating to installation of options, refer to any installation instructions that came with the option, as well as the *HP ProLiant SL170z G6 series Server Maintenance and Service Guide*.
- For safety information and detailed procedures related to the rest of the steps listed in the “Configuring the Server”section, refer to relevant chapter of the *HP ProLiant SL170z G6 Series Server User Guide*.
- For information relating to system BIOS configuration and operating system installation, refer to relevant section of the *HP ProLiant SL170z G6 Server Software Configuration Guide*.
- Refer to the *HP ProLiant SL170z G6 Server Easy Set-up CD* for additional information and updates not provided in this installation sheet. You can also access additional information and documentation from the HP website at **http://www.hp.com/**, either by connecting directly or through the Easy Set-up CD.

Server Configuration Overview

The steps listed below give an overview of the necessary setup procedures for preparing the HP ProLiant SL170z G6 Server for operation:

1. Connect the AC power cord and peripheral devices.
2. Power up the server.
3. Press **F10** to enter BIOS setup.
4. Note the server BIOS version.
5. Verify the server BIOS version against the latest BIOS version listed for this server on the HP website: http://www.hp.com.

6. If you do not have the latest BIOS, update the BIOS now. Refer to the *ProLiant SL170z G6 Server Maintenance and Service Guide* available on the HP website: http://www.hp.com.
7. Install a supported operating system of your choice. For detailed procedures, refer to the documentation provided by the operating system vendor. For a list of operating systems supported by your ProLiant server, go to **http://www.hp.com/go/supportos**.

Pre- and Post-installation Procedures

When installing additional options in your HP ProLiant SL170z G6 Server, observe the following procedures:

Pre-installation Procedures

1. Turn off the server and all the peripherals connected to it.
2. Remove the server from the chassis by following the procedure described later in the "Removing the server" section.

Post-installation Procedures

1. Be sure all components are installed according to the described step-by-step instructions.
2. Check to make sure you have not left loose tools or parts inside the server.
3. Reinstall the PCI riser, peripherals, and system cables that you have removed.
4. Reinstall the server into the chassis.
5. Connect all external cables to the system.
6. Press the power button on the front panel to turn on the server.

Removing the Server

You need to remove the server from the chassis before you can remove or replace a server component.

△ **CAUTION:** When the servers are operational, tray blank 577723-001 (HP option kit PN 579069-B21) must be installed in the server slot after removal of the server.

To remove the server:

1. Press the tray latch to release the tray handle.
2. Rotate the tray handle to disengage the power connector.
3. Pull the server tray assembly out of the chassis.
4. Install the tray blank in the server slot.

Figure 3 Removing the server

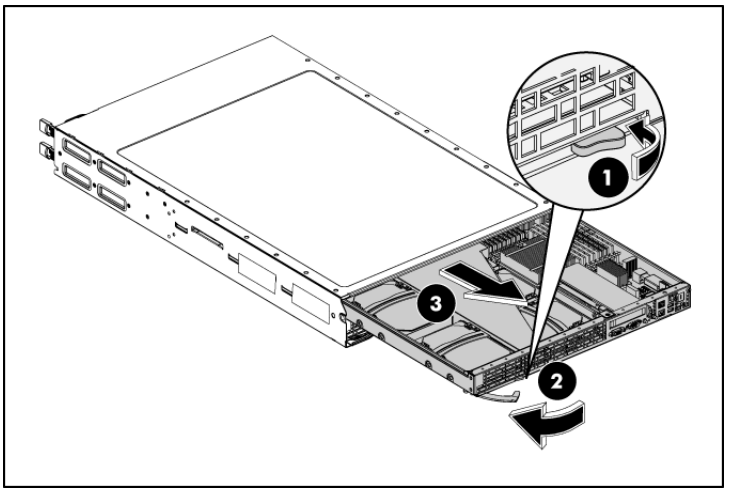
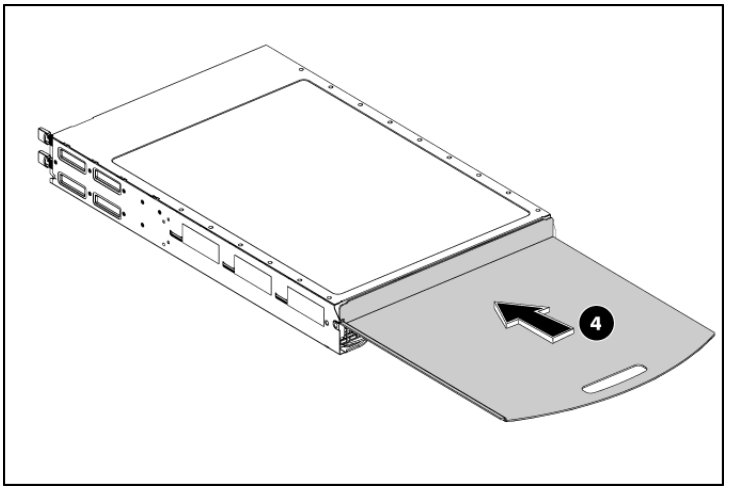


Figure 4 Installing a tray blank



Installing a Hard Disk Drive

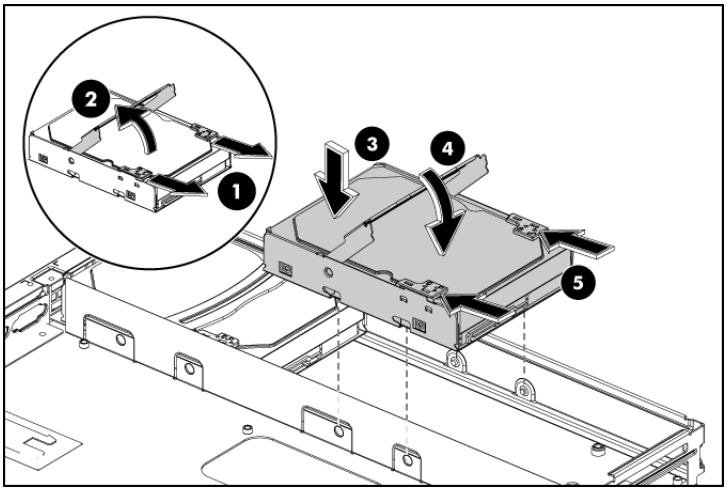
Each chassis can accommodate two server trays. Each server tray can accommodate six LFF hard disk drives for a maximum of 12 LFF hard disk drives per chassis. The server supports both SAS and SATA hard disk drives.

CAUTION: Drives can be damaged by static electricity. Before handling drives, touch an unpainted metal surface to discharge static electricity.

To install a hard disk drive:

1. Unlock the HDD carrier latches.
2. Rotate the HDD carrier handle up.
3. Insert the HDD carrier and align the four pins.
4. Rotate the HDD carrier handle down.
5. Lock the HDD carrier latches.

Figure 5 Installing a hard disk drive



Installing a Memory Module

The following guidelines must be followed when memory modules are being added or replaced:

Support ZKPG DDR3 DIMMs using 1G, 2G, 4G, 8G, DDR3 DRAMs.

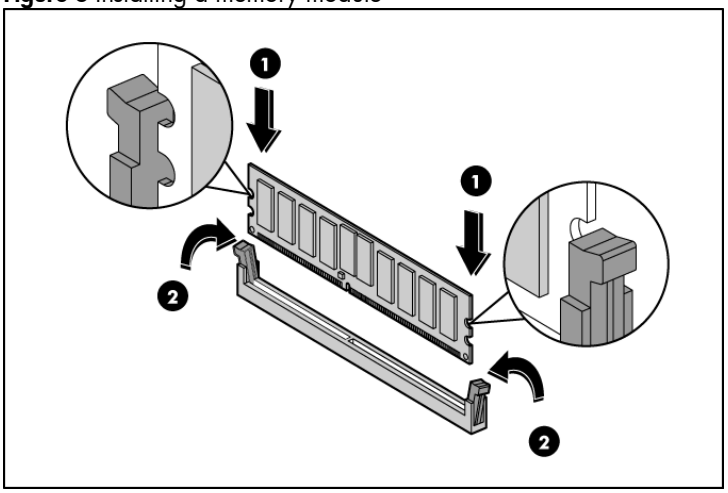
- Supported configurations:
  - One DIMM per processor: 8A for CPU1; 8A for CPU2.
  - Three DIMMs per processor: 8A, 5B, 2C for CPU1; 8A, 5B, 2C for CPU2.
  - Six DIMMs per processor: 8A, 7D, 5B, 4E, 2C, 1F for CPU1; 8A, 7D, 5B, 4E, 2C, 1F for CPU2.
  - Eight DIMMs per processor: 8A, 7D, 6G, 5B, 4E, 3H, 2C, 1F for CPU1; 8A, 7D, 6G, 5B, 4E, 3H, 2C, 1F for CPU2.

CAUTION: DIMMs can be damaged by improper handling. Always use an anti-static wrist strap and grounding mat, and discharge static electricity before touching DIMMs.

To install a memory module:

1. Align the notch on the bottom edge of the module with the keyed surface of the DIMM slot and then press the module fully into the slot.
2. Firmly press the holding clips inward to secure the memory module in place.

Figure 6 Installing a memory module



DIMM slots are structured to ensure proper installation. If you insert a DIMM but it does not fit easily into the slot, you may have inserted it incorrectly. Reverse the orientation of the DIMM and insert it again.

Installing a Processor

The HP ProLiant SL170z G6 server supports Intel Nehalem 5500 Series Processors High Wattage 80W and Intel Xeon 5600 Series Processor High Wattage 130W, and Intel Nehalem 5500 Series Processors Low Wattage 60W and Intel Xeon 5600 Series Processors Low Wattage 40W.

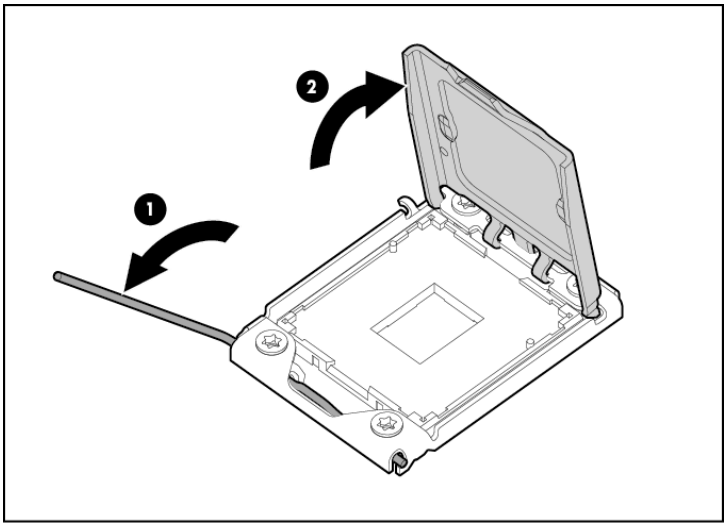
To install a processor:

CAUTION: Use the processor installation tool to insert the processor into the socket. The processor and system board spare part kits contain the processor installation tool and instructions on how to use the tool. It is important to follow the instructions to prevent damage to the pins in the processor socket.

CAUTION: Failure to completely open the processor locking lever prevents the processor from seating during installation, leading to hardware damage.

1. Open the processor locking lever and the processor socket retaining bracket. **Do not remove the processor socket cover**.

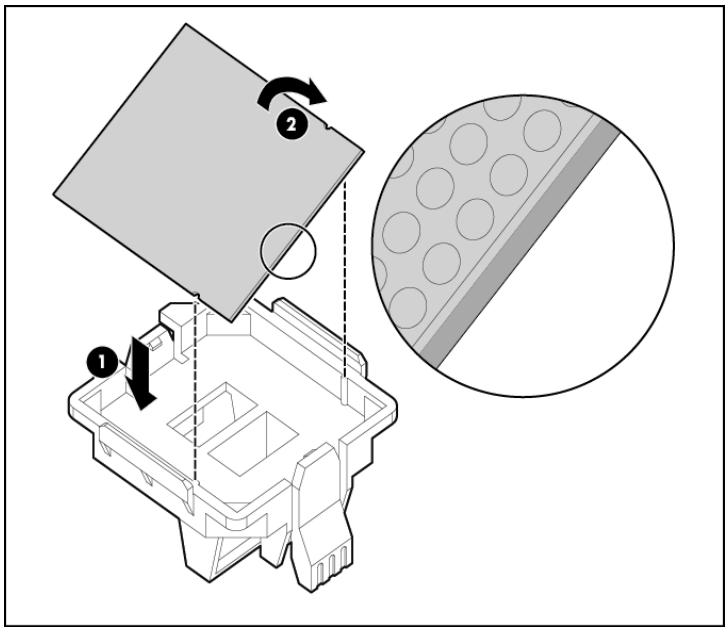
Figure 7 Opening the lever and bracket



IMPORTANT: Be sure the processor remains inside the processor installation tool.

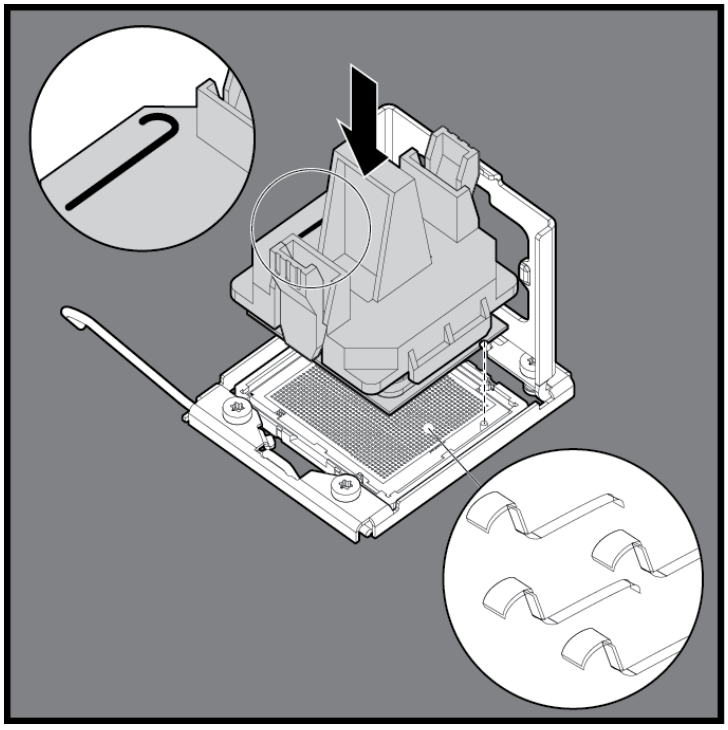
2. If the processor has separated from the installation tool, carefully re-insert the processor in the tool. Handle the processor by the edges only, and do not touch the bottom of the processor, especially the contact area.

Figure 8 Reinserting a processor



3. Align the processor installation tool with the socket, and then install the processor. **THE PINS ON THE SYSTEM BOARD ARE VERY FRAGILE AND EASILY DAMAGED**.

Figure 9 Installing a processor

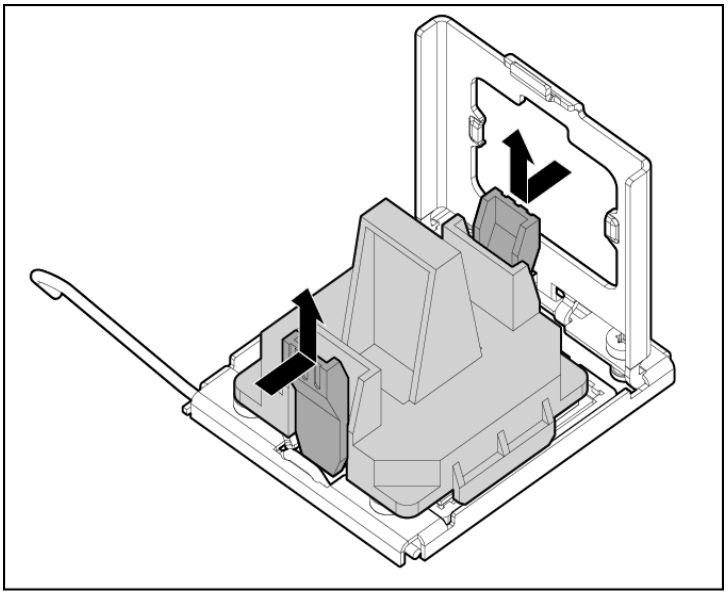


CAUTION: THE PINS ON THE SYSTEM BOARD ARE VERY FRAGILE AND EASILY DAMAGED. To avoid damage to the system board:

- Never install or remove a processor without using the processor installation tool.
- Do not touch the processor socket contacts.
- Do not tilt or slide the processor when lowering the processor into the socket.

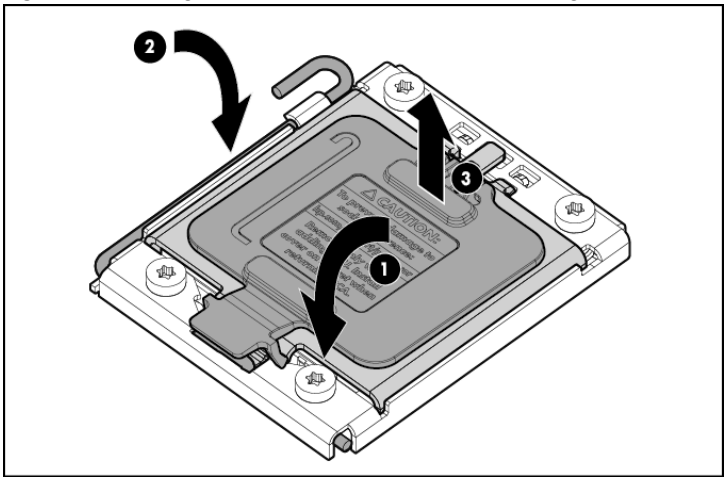
4. Press the tabs on the processor installation tool to separate it from the processor, and then remove the tool.

Figure 10 Removing the processor installation tool



5. Close the processor socket retaining bracket and the processor locking lever. **The processor socket cover is automatically ejected**. Remove the cover.

Figure 11 Closing the bracket and lever, and removing the cover



CAUTION: Be sure to close the processor socket retaining bracket before closing the processor locking lever. The lever should close without resistance. Forcing the lever closed can damage the processor and socket, requiring system board replacement.

For processor removal, reverse the above installation procedures being sure to use the processor tool to remove the processor.

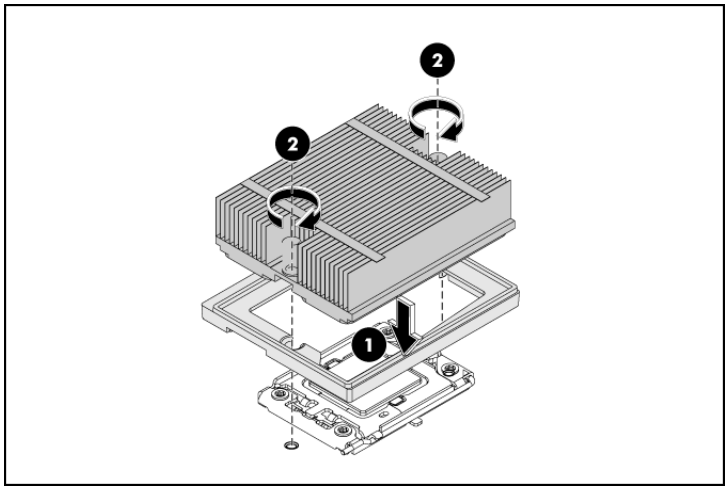
To install the heatsink:

CAUTION: Heatsink screws should be tightened and loosened in opposite sequence. Do not overtighten the screws as this can damage the system board, connectors, or screws. A maximum torque of 6-8 in-lb is set for the system.

CAUTION: Be sure that the heatsink sits squarely on the processor, or overheating and damage to the processor may occur.

1. Position the heatsink on the processor backplate.
2. Tighten the first screw about three quarters in, then tighten the second screw completely.
3. Completely tighten the first screw.

Figure 12 Installing the heatsink



IMPORTANT: If the heatsink has been removed for any reason, it is critical that you apply more thermal interface material to the integrated heat spreader on the processor to ensure proper thermal bonding between the processor and the hea sink. Clean the contact surface of both the processor and heatsink with an alcohol pad, and then re-apply an HP-approved thermal interface material before reinstalling the processor. Use a pattern of five dots when applying the thermal interface material—one dot in the center, and one dot at each corner.

Additional Documentation

For additional documentation, refer to *HP ProLiant SL170z G6 Easy Set-up CD*. You can also access additional information and documentation from the HP external website, either by connecting directly or through the Easy Set-up CD.

For translated instructions, see the Easy Set-up CD or http://www.hp.com/support

Para obter instruções traduzidas, consulte Easy Set-up CD ou HP.com

Übersetzte Gebrauchsanleitungen finden Sie auf der Easy Set-up CD oder unter HP.com

Para obtener las instrucciones traducidas, consulte el Easy Set-up CD o la página web HP.com

Pour obtenir des instructions traduites, reportez-vous au CD Easy Set-up ou visitez le site HP.com

翻訳された手順については、Easy Setup CDまたはHP.comを参照してください。

请参见 Easy Set-up CD 或访问 HP.com 以查看经过翻译的说明

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